AMENDMENTS TO THE CLAIMS

1-13. (Cancel)

- 14. (Withdrawn) A method comprising:comparing a user group of a packet with a user group of a destination of said packet.
- 15. (Withdrawn) The method of claim 14, wherein said user group of said destination of said packet is identified by a user group identifier, and said user group identifier is stored in a role-based access control list entry of an access control list.
- 16. (Withdrawn) The method of claim 14, wherein said user group of said packet is a source user group, and said user group of said destination of said packet is a destination user group.
- 17. (Withdrawn) The method of claim 16, wherein said source user group is assigned to a source of said packet based on a role of said source, and said destination user group is assigned to said destination based on a role of said destination.
- 18. (Withdrawn) The method of claim 16, further comprising: retrieving said destination user group from a forwarding information base.
- 19. (Withdrawn) The method of claim 18, further comprising: storing said destination user group in an access control list.
- 20. (Withdrawn) The method of claim 16, wherein said source user group is indicated by a source user group identifier stored in said packet, and

said destination user group is indicated by a destination user group stored in a network device receiving said packet.

- 21. (Withdrawn) The method of claim 16, further comprising: determining said source user group; and determining said destination user group by looking up said destination user group in an access control list.
- 22. (Withdrawn) The method of claim 21, wherein said destination user group is identified by a destination user group identifier, and said destination user group identifier is stored in a role-based access control list entry of said access control list.
- (Withdrawn) The method of claim 21, wherein said access control list is a role-based access control list.
- 24. (Withdrawn) The method of claim 21, wherein said determining said source user group comprises:

extracting a source user group identifier from said packet, wherein said source user group identifier identifies said source user group.

- 25. (Withdrawn) The method of claim 24, further comprising:

 populating said access control list with a destination user group identifier, wherein said destination user group identifier identifies said destination user group.
- 26. (Withdrawn) The method of claim 25, wherein said destination user group is assigned to said destination based on a role of said destination.
- 27. (Withdrawn) The method of claim 25, wherein said comparing and said populating are performed by a network device, and said populating comprises sending a request to another network device, and

receiving a response from said another network device, wherein said response includes a destination user group identifier, and said destination user group identifier identifies said destination user group.

- 28. (Withdrawn) The method of claim 14, further comprising:

 populating a forwarding table with a user group identifier, wherein

 said user group identifier identifies said user group of said packet, and

 said user group of said packet indicates a user group of a source of said packet.
- (Withdrawn) The method of claim 28, wherein said source user group is assigned to said source based on a role of said source.
 - 30. (Withdrawn) The method of claim 28, wherein said user group is a source user group, and said user group identifier is a source user group identifier.
 - 31. (Withdrawn) The method of claim 30, wherein said comparing and said populating are performed by a network device, and said populating comprises

 determining said source user group.
 - 32. (Withdrawn) The method of claim 31, wherein said populating further comprises: receiving an authentication message from another network device, wherein said response includes said source user group identifier.

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- 55. (Original) A method comprising: populating an access control list with a destination user group identifier, wherein said destination user group identifier identifies a destination user group of a destination.
- 56. (Original) The method of claim 55, wherein

said destination user group is assigned to said destination based on a role of said destination.

- 57. (Original) The method of claim 55, wherein said populating is performed by a network device and comprises sending a request to another network device, and receiving a response from said another network device, wherein said response includes said destination user group identifier, and said destination user group identifier identifies said destination user group.
- 58. (Original) The method of claim 55, further comprising: comparing a user group of a packet with said destination user group.
- 59. (Original) The method of claim 58, wherein said user group of said packet is a source user group, said destination user group is a user group of a destination of said packet, and said destination is said destination of said packet.
- 60. (Original) The method of claim 59, wherein said source user group is assigned to a source of said packet based on a role of said source, and said destination user group is assigned to said destination based on a role of said destination.
- 61. (Original) The method of claim 59, wherein said source user group is indicated by a source user group identifier stored in said packet, and said destination user group is indicated by a destination user group stored in a network device receiving said packet.
- 62. (Original) The method of claim 59, further comprising: determining said source user group; and

- determining said destination user group by looking up said destination user group in an access control list.
- 63. (Original) The method of claim 62, wherein said access control list is a role-based access control list.

computer readable media.

- 64. (Original) The method of claim 62, wherein said determining said source user group comprises:
 - extracting a source user group identifier from said packet, wherein said source user group identifier identifies said source user group.
- 65. (Original) A computer program product comprising:

 a first set of instructions, executable on a computer system, configured to populate an access control list with a destination user group identifier, wherein said destination user group identifier identifies a destination user group of a destination; and computer readable media, wherein said computer program product is encoded in said
- 66. (Original) The computer program product of claim 65, further comprising:
 a second set of instructions, executable on said computer system, configured to compare
 a user group of a packet with said destination user group.
- 67. (Original) The computer program product of claim 66, wherein said user group of said packet is a source user group, said destination user group is a user group of a destination of said packet, and said destination is said destination of said packet.
- 68. (Original) The computer program product of claim 67, further comprising:
 a third set of instructions, executable on said computer system, configured to determine
 said source user group; and

- a fourth set of instructions, executable on said computer system, configured to determine said destination user group by looking up said destination user group in an access control list.
- 69. (Original) The computer program product of claim 68, wherein said third set of instructions comprises:
 - a first subset of instructions, executable on said computer system, configured to extracting a source user group identifier from said packet, wherein said source user group identifier identifies said source user group.
- 70. (Original) An apparatus comprising:

 means for populating an access control list with a destination user group identifier,

 wherein

 said destination user group identifier identifies a destination user group of a

 destination.
- 71. (Original) The apparatus of claim 70, further comprising:
 means for comparing a user group of a packet with said destination user group.
- 72. (Original) The apparatus of claim 71, wherein said user group of said packet is a source user group, said destination user group is a user group of a destination of said packet, and said destination is said destination of said packet.
- 73. (Original) The apparatus of claim 72, further comprising:
 means for determining said source user group; and
 means for determining said destination user group by looking up said destination user
 group in an access control list.
- 74. (Original) The apparatus of claim 73, wherein said means for determining said source user group comprises:
 - means for extracting a source user group identifier from said packet, wherein said source user group identifier identifies said source user group.

- 75. (Withdrawn) A method comprising: *
 populating a forwarding table with a user group identifier.
- 76. (Withdrawn) The method of claim 75, wherein said user group identifier is a source user group identifier, and so identifies a source user group.
- 77. (Withdrawn) The method of claim 76, wherein a source of a packet is in said source user group.
- 78. (Withdrawn) The method of claim 77, wherein said source user group is assigned to said source based on a role of said source.
- 79. (Withdrawn) The method of claim 77, wherein said populating comprises determining said source user group.
- 80. (Withdrawn) The method of claim 79, wherein said populating is performed by a network device and further comprises:

receiving an authentication message from another network device, wherein said response includes said source user group identifier.

- 81. (Withdrawn) The method of claim 77, wherein a destination of said packet is in a destination user group.
- 82. (Withdrawn) The method of claim 81, wherein said destination user group is assigned to said destination based on a role of said destination.
- 83. (Withdrawn) The method of claim 81, further comprising: comparing a source user group of said packet with said destination user group.
- 84. (Withdrawn) The method of claim 83, wherein

said source user group of said packet is indicated by a source user group identifier stored in said packet, and

said destination user group is indicated by a destination user group stored in a network device performing said comparison.

- 85. (Withdrawn) The method of claim 81, further comprising:

 determining said source user group; and
 determining said destination user group by looking up said destination user group in an
 access control list stored at said network device performing said comparison.
- 86. (Withdrawn) The method of claim 85, wherein said determining said source user group comprises:

extracting said source user group identifier stored in said packet from said packet, wherein

said source user group identifier stored in said packet identifies said source user group of said source of said packet.

87-98. (Cancel)

- 99. (Withdrawn) A method comprising:
 indexing a row of a permissions matrix with a first user group; and
 indexing a column of said permissions matrix with a second user group.
- 100. (Withdrawn) The method of claim 99, wherein said first user group is a source user group, and said second user group is a destination user group.
- 101. (Withdrawn) The method of claim 100, wherein said permissions matrix comprises: a plurality of permissions matrix entries.
- 102. (Withdrawn) The method of claim 101, wherein each of said permissions matrix entries is a pointer to a data structure.

- 103. (Withdrawn) The method of claim 102, wherein said data structure is a permission list.
- 104. (Withdrawn) The method of claim 102, wherein said data structure is a permission list entry.
- 105. (Withdrawn) The method of claim 102, wherein said data structure is a pointer to a permission list.
- 106. (Withdrawn) The method of claim 105, wherein said data structure further comprises: another pointer to another permission list.
- 107. (Withdrawn) The method of claim 102, further comprising: employing permission list chaining in said data structure.
- 108. (Withdrawn) The method of claim 102, further comprising:
 selecting a selected permissions matrix entry of said permissions matrix entries, wherein
 said selecting comprises
 identifying a row of said permissions matrix using a source user group identifier,
 identifying a column of said permissions matrix using a destination user group
 identifier, and
 identifying a permissions matrix entry of said permissions matrix entries in said
 row and said column as said selected permissions matrix entry.
- 109. (Withdrawn) The method of claim 108, further comprising: selecting a permission list from a plurality of permission lists using said selected permissions matrix entry.
- 110. (Withdrawn) The method of claim 108, further comprising: selecting a permission list entry from a permission list using said selected permissions matrix entry.
- 111-117. (Cancel)